

Infrastructure for gliders in French research

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Glider Team

Laurent Beguery 100%

Head Engineer

Karim Bernardet 50%

Computer Engineer

Karim Mahiouz 80%

Mechanical Technician

Pierrette Duformentelle 50% - Ifremer

Acoustic Technician

David Stuart 50%

Instrumentation Engineer

Nagib Bhairy 30%

Electronician Technician

Zouhir Hafidi 20%

Computer Engineer

Glider Comitee: INSU, IFREMER, IRD, ENSTA

Pierre Testor (LOCEAN)

Parc National de planeurs



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- 12 Gliders
 - 2 slocums « shallow »
 - 8 slocums « deep »
 - 2 SeaGliders
- Capteurs
 - CTD
 - O2
 - Chla / CDOM / Phycoérythrine
 - Back scattering (440 nm -> 880 nm)

DGA / ENSTA;

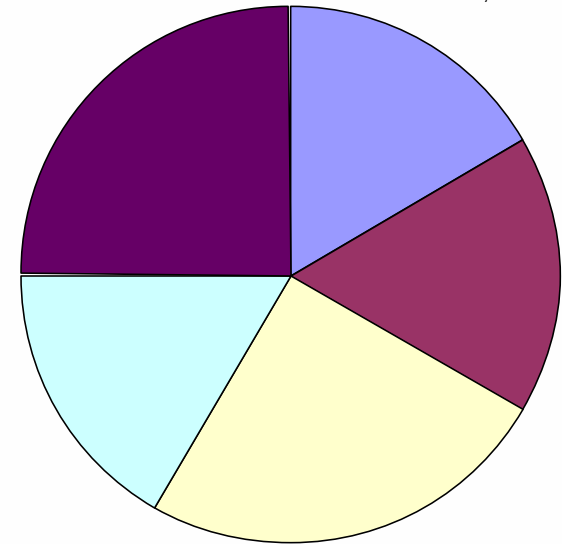
3

LOV; 2

CETSM; 2

LOCEAN; 2

INSU; 3



year	# glider	# month at sea	Where?
2009	7	18	France, Peru
2010	13	20	France, Peru, French caledonia
2011	12	47	France, Peru, French Caledonia, Senegal, Marrocco, ...

Gliderports and local contacts



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Developments



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« Hardware team »

2009: Procedures & trainings

2010: Maintenance Database

2011: New sensors integration

2012: more men more missions?

« Software team »

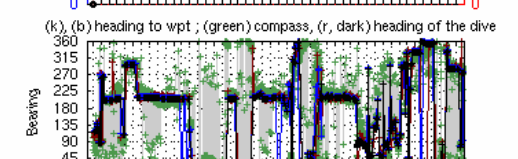
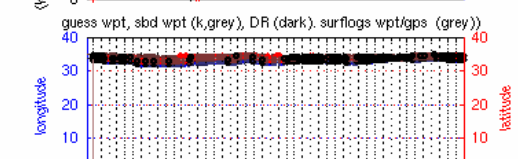
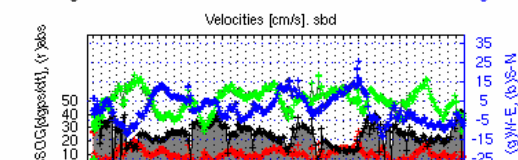
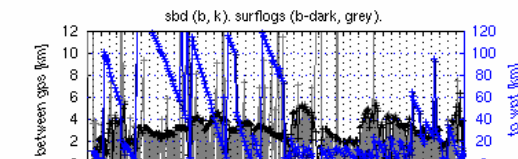
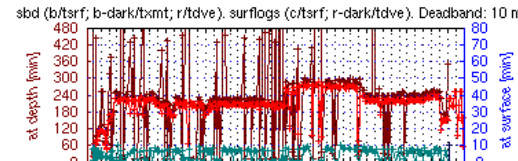
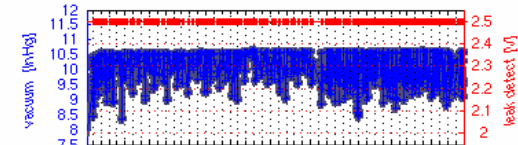
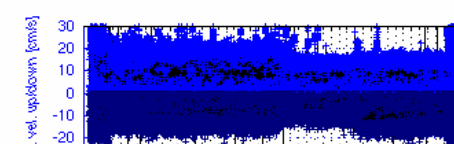
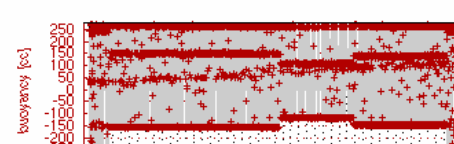
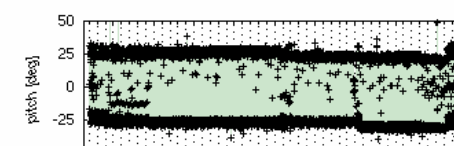
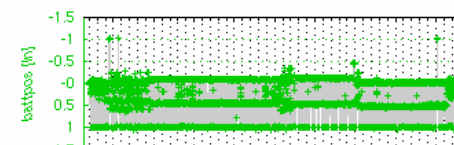
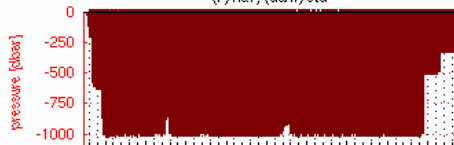
2009: Jabber Architecture

2010: Alarms helping the pilot

2011: autopilot

2012 : fleet autopilot

2013 : adaptative sampling



Laurent Beguery | Insu – 5th EGO meeting – March 2011 – Las Palmas de Gran Canaria



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Database maintenance

EGO

Everyone's Gliding Observatories

- back to GFCP
- Home
- Equipment
- Assembly
- Maintenance
- Status
- Deployment
- Documents

Log in

Username

Password

login

SPARE

- 1 Aft_Hull
- 2 Altimeter
- 1 Digifin
- 1 Fwd_Hull

Glider's fleet maintenance interface

To keep track of everything: maintenance, preparation, calibration, stock of spare or batteries to sensor calibration. Please log in to Access this area.

Deployment planning

	Janvier	Fevrier	Mars	Avril	Mai	Juin	Juillet	Août	Septembre
pytheas									
wallis				Cascade					
tenuse	HS			ASPEX Leg2					
campe				AltiGlidEX					
hannon			Dakar				ICOVBIO		
himilcon			Dakar -turb		Sismo glider				
nearchos	Vocals			Cascade			ICOVBIO		
eudoxus	HS			MooseT00		MooseT00			
bonpland	baleares?	Int piles supp		Pirata					
SG508				MooseT02					
SG509	MooseT02					MooseT02			
tintin				Bloom				MooseT00	
milou	MooseT00			MooseT00			MooseT00		

GLIDER'S STATUS

- Eudoxus
- Pytheas
- Tintin



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Database maintenance

The screenshot displays the EGO database interface. The top navigation bar includes links for 'back to GFCP', 'Home', 'Equipment', 'Assembly', 'Maintenance', 'Status', 'Deployment', and 'Documents'. The main content area shows the 'View details of a Glider : Slocum1000m' page. The glider's name is 'Eudoxus' with a serial number of '136'. The owner is 'DT INSU' and the provider is 'Teledyne Webb research' (purchase date: 2008-11-18, price: 0 €). The status is 'Nothing to report'. The equipment list is organized into three main sections: 'fore', 'sci', and 'aft', each containing a list of components with their respective IDs. A tooltip for the 'Pitch_Motor' component shows 'operator : origin' and 'origin assembly'.

EGO Everyone's Gliding Observatories

back to GFCP Home **Equipment** Assembly Maintenance Status Deployment Documents

Welcome test
logout
SPARE
1 Aft_Hull
2 Altimeter
1 Digifin
1 Fwd_Hull

Home > Equipment > View
View details of a Glider : Slocum1000m

Name : Eudoxus
Serial : 136
Owner : DT INSU
Provider : Teledyne Webb research (purchase date : 2008-11-18 - price : 0 €)
Relative documents :
Status : Nothing to report - View status history
View maintenance history

GLIDER'S STATUS
• Eudoxus
• Pytheas
• Tintin

- fore : (136_Fore)
 - Altimeter : 1626395
 - Fwd_Air_Pump : 112
 - Fwd_Hull : xxx
 - Motor_Controller : 114
 - Pitch_Motor : 113
 - Pump_Assy : 119
 - Valve_Assy : 113
 - Buoyancy_Pump_assy : 034
- sci : (136_Sci)
 - Seabird_CTD : 147
 - Payload_Bay : 105
 - SBMB : 112
 - Science_Flashcard : 22587
 - Science_Persistor : 52873
 - U4SOEM : xxx
- aft : (136_Aft)
 - Aft_Cap_Assy : 041
 - Aft_Hull : xxx
 - Aft_Tray_Assy : 128
 - Air_Bladder : 078
 - Air_Pump : 129

operator : origin
origin assembly



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Database maintenance

The screenshot displays the EGO (Everyone's Gliding Observatories) web application. The interface features a blue header with the EGO logo and the tagline "Everyone's Gliding Observatories". Below the header is a navigation bar with tabs: "back to GFCP", "Home", "Equipment", "Assembly", "Maintenance" (selected), "Status", "Deployment", and "Documents".

The main content area is divided into three sections:

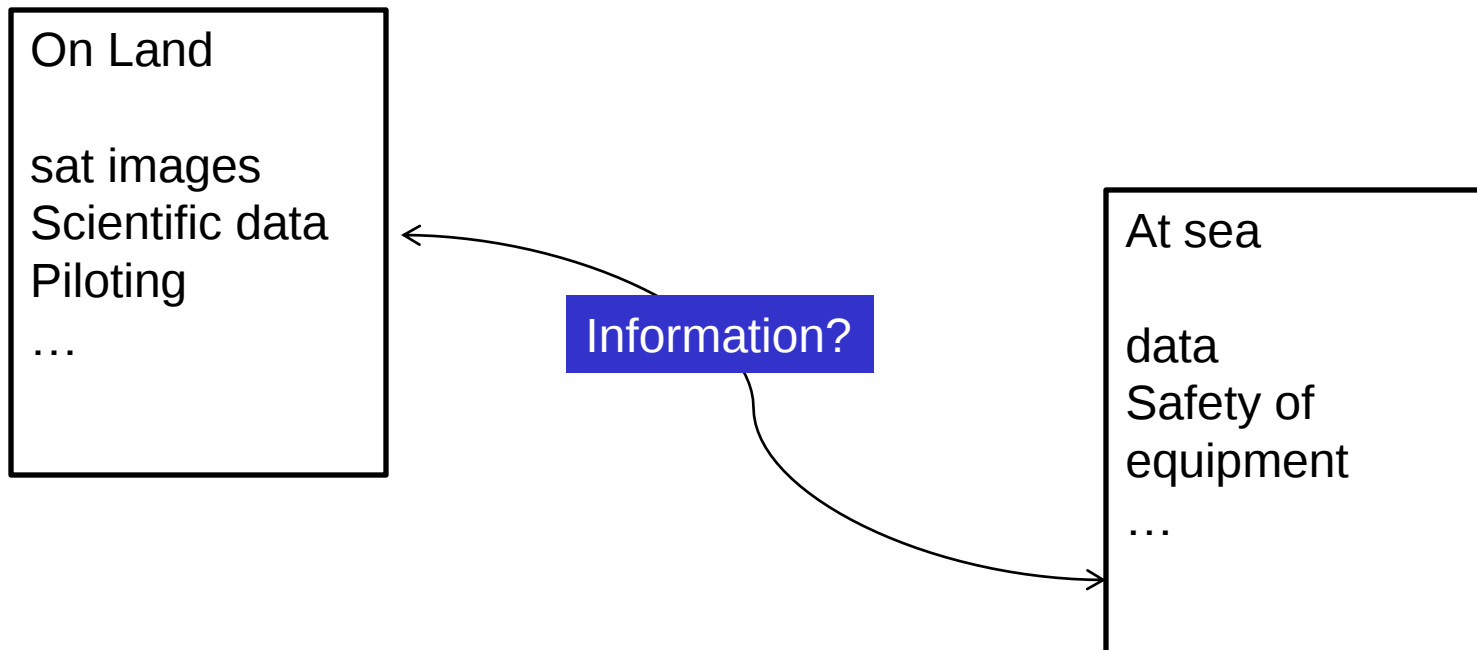
- Left sidebar:** Contains a "Welcome test" message, a "logout" button, and a "SPARE" section listing items: "1 Aft_Hull", "2 Altimeter", "1 Digifin", and "1 Fwd_Hull".
- Center panel:** Displays the breadcrumb "Home > Maintenance history > View" and the title "View details of a Slocum1000m Ballasting". It shows details for "Equipment" (Name: Eudoxus, Serial: 136) and "Ballasting" (Date: 2011-03-15 10:02:10, Operator: test). A "Note" section contains the text "Mh=-4" and "il est sur le dos?".
- Right sidebar:** Titled "GLIDER'S STATUS", it lists three gliders: "Eudoxus", "Pytheas", and "Tintin".



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Meanwhile at sea...

- Buoys, unknown, glider, Ship (BUGS)
- Upgraded Surface alarm
- Interactive Web site



Gliders & team

